

IN THE SPECIFICATION:

Please amend the specification as follows:

At page 1, please delete the existing title of the application, and replace with the following new title:

--COLEOPTERAN-RESISTANT TRANSGENIC PLANTS AND METHODS OF
THEIR PRODUCTION--

At page 2, line 1, please insert the following new paragraph:

--This application is a divisional of co-pending application Serial No. 09/427,770 filed October 27, 1999, which is a continuation of Serial No. 08/993,722, filed December 18, 1997, now U.S. Patent No. 6,060,594.--

At page 2, paragraph 2, please amend as shown:

Almost all field crops, plants, and commercial farming areas are susceptible to attack by one or more insect pests. Particularly problematic are Coleopteran and ~~Lepidoptern~~ Lepidopteran pests. For example, vegetable and cole crops such as artichokes, kohlrabi, arugula, leeks, asparagus, lentils, beans, lettuce (*e.g.*, head, leaf, romaine), beets, bok choy, malanga, broccoli, melons (*e.g.*, muskmelon, watermelon, crenshaw, ~~honeydew, cantaloupe~~ honeydew, cantaloupe), brussels sprouts, cabbage, cardoni, carrots, napa, cauliflower, okra, onions, celery, parsley, chick peas, parsnips, chicory, peas, chinese cabbage, peppers, collards, potatoes, cucumber, pumpkins, cucurbits, radishes, dry bulb onions, rutabaga, eggplant, salsify, escarole, shallots, endive, soybean, garlic, spinach, green onions, squash, greens, sugar beets, sweet potatoes, turnip, swiss chard, horseradish, tomatoes, kale, turnips, and a variety of spices are sensitive to infestation by one or more of the following insect pests: alfalfa looper, armyworm, beet armyworm, artichoke plume moth, cabbage budworm, cabbage looper, cabbage webworm, corn earworm, celery leafeater, cross-striped

cabbageworm, european corn borer, diamondback moth, green cloverworm, imported cabbageworm, melonworm, omnivorous leafroller, pickleworm, rindworm complex, saltmarsh caterpillar, soybean looper, tobacco budworm, tomato fruitworm, tomato hornworm, tomato pinworm, velvetbean caterpillar, and yellowstriped armyworm. Likewise, pasture and hay crops such as alfalfa, pasture grasses and silage are often attacked by such pests as armyworm, beef armyworm, alfalfa caterpillar, European skipper, a variety of loopers and webworms, as well as yellowstriped armyworms.

At page 6, Table 1 column 3, row 3, and row 14, please amend as shown:

TABLE 1 (CONTINUED)

| New | Old | GenBank Accession # |
|------------|------------|----------------------------------|
| Cry1Aa3 | CryIA(a) | D00348 |
| Cry1Aa4 | CryIA(a) | X13535 |
| Cry1Aa5 | CryIA(a) | D175182 <u>D17518</u> |
| Cry1Aa6 | CryIA(a) | U43605 |
| Cry1Ab1 | CryIA(b) | M13898 |
| Cry1Ab2 | CryIA(b) | M12661 |
| Cry1Ab3 | CryIA(b) | M15271 |
| Cry1Ab4 | CryIA(b) | D00117 |
| Cry1Ab5 | CryIA(b) | X04698 |
| Cry1Ab6 | CryIA(b) | M37263 |
| Cry1Ab7 | CryIA(b) | X13233 |
| Cry1Ab8 | CryIA(b) | M16463 |
| Cry1Ab9 | CryIA(b) | X54939 |
| Cry1Ab10 | CryIA(b) | A29125 |
| Cry1Ac1 | CryIA(c) | M11068 |
| Cry1Ac2 | CryIA(c) | M35524 |
| Cry1Ac3 | CryIA(c) | X54159 |
| Cry1Ac4 | CryIA(c) | M73249 |
| Cry1Ac5 | CryIA(c) | M73248 |

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| CryIAc6 | CryIA(c) | U43606 |
| CryIAc7 | CryIA(c) | U87793 |
| CryIAc8 | CryIA(c) | U87397 |
| CryIAc9 | CryIA(c) | U89872 |
| CryIAc10 | CryIA(c) | AJ002514 |
| CryIAd1 | CryIA(d) | M73250 |
| CryIAe1 | CryIA(e) | M65252 |
| CryIBa1 | CryIB | X06711 |

At page 7, in Table 1 column 3, row 4, and row 25, please amend as shown:

TABLE 1 (CONTINUED)

| New | Old | GenBank Accession # |
|------------|------------|----------------------------|
| CryIBa2 | | X95704 |
| CryIBb1 | ET5 | L32020 |
| CryIBc1 | CryIb(c) | Z46442 |
| CryIBd1 | CryE1 | U70726 |
| CryICa1 | CryIC | X07518 |
| CryICa2 | CryIC | X13620 |
| CryICa3 | CryIC | M73251 |
| CryICa4 | CryIC | A27642 |
| CryICa5 | CryIC | X96682 |
| CryICa6 | CryIC | X96683 |
| CryICa7 | CryIC | X96684 |
| CryICb1 | CryIC(b) | M97880 |
| CryIDa1 | CryID | X54160 |
| CryIDb1 | PrtB | Z22511 |
| CryIEa1 | CryIE | X53985 |
| CryIEa2 | CryIE | X56144 |
| CryIEa3 | CryIE | M73252 |
| CryIEa4 | | U94323 |

| | | |
|---------|----------|-------------------|
| CryIEb1 | CryIE(b) | M73253 |
| CryIFa1 | CryIF | M63897 |
| CryIFa2 | CryIF | M63897 |
| CryIFb1 | PrtD | Z22512 |
| CryIGa1 | PrtA | Z22510 |
| CryIGa2 | CryIM | Y09326 |
| CryIGb1 | CryH2 | U70725 |
| CryIHa1 | PrtC | Z22513 |
| CryIHb1 | | U35780 |

At page 172, in Table 14, please amend as shown:

TABLE 14
CRY3Bb* PROTEINS SHOWING IMPROVED ACTIVITY AGAINST SCRW LARVAE ALSO
SHOW IMPROVED ACTIVITY AGAINST WCRW LARVAE

| Improved Protein | LC ₅₀ µg/well (95% C.I.) | | Fold Increase Over WT Activity |
|------------------|--|--|-----------------------------------|
| | Improved Protein | WT Cry3Bb Control | |
| EG11083 | 6.3 (4.7-8.2) | 63.5 (46-91) | 10.1× |
| EG11230 | 24.2 (13-40) <u>4.5 (2.1-7.4)</u> | 4.5 (2.1-7.4) <u>24.2 (13-40)</u> | 5.4× |
| EG11231 | 32.2 (14-67) <u>2.5 (1.7-3.6)</u> | 2.5 (1.7-3.6) <u>32.2 (14-67)</u> | 12.9× |

At page 196, line 1, please amend as shown:

U. S. Patent 5,187,091, issued ~~XXXXXX~~ Feb. 16, 1993.

At page 197, line 15, please amend as shown:

Baum, Kakefuda, Gawron-Burke, "Engineering *Bacillus thuringiensis* Bioinsecticides with an Indigenous Site-Specific Recombination System," *Appl. Environ. Microbiol.*, 62:~~XXX-XXX~~ 62(12):4367-4373, 1996.

At page 204, line 12, please amend section as shown:

Prokop and Bajpai, "Recombinant DNA Technology I," *Ann. N. Y. Acad. Sci.*, 646:
~~xxx-xxx~~ 646:1-383, 1991.

Please replace the previous sequence listing of 113 sequences with the presently submitted substitute sequence listing of 241 pages comprising 113 sequences, which has had the description fields updated and has also been updated to Patent In Version 3.2. The required statements are also being submitted herewith.